

**The Knowledge Bank at The Ohio State University**  
**Ohio State Engineer**

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# 5 POINT PIPE

## The "Ins and Outs" of Endurance

Into a flame-filled furnace go pure pig iron and silicious slag, there to be stirred and kneaded together—*puddled*—until every inmost particle of the iron gets a rust-proof slag coating.

Out of the puddling furnace comes a pipe material so staunch, so enduring, that it serves faithfully for generations—this is Reading Genuine Puddled Wrought Iron!

Time has shown no substitute for the puddling process in making pipe that lasts from three to five times as long as ordinary pipe, defying corrosion down the years. For true economy, when you are responsible for construction or maintenance, insist on time-tested, genuine *puddled* wrought iron pipe—and look for the Reading name and spiral knurl mark that identify every piece of Reading 5 point pipe.

**1**  
*Resists Corrosion*—the puddling process\* coats every inmost particle of Reading Pipe with age-lasting silicious slag.

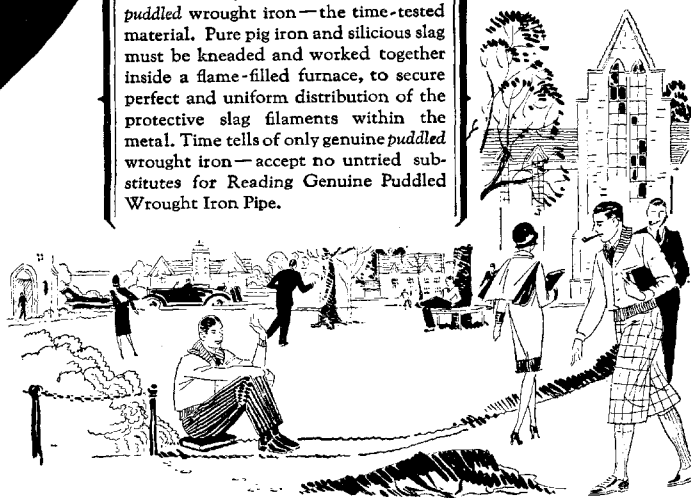
**2**  
*Defies Vibration*—puddling imparts a tough, rope-like structure that does not crystallize or fracture sharply.

**3**  
*Threads Better*—clean threads are quickly cut, insuring tight joints that stay leak-proof.

**4**  
*Welds Easily*—pipe walls have maximum strength; no "weak spots".

**5**  
*Holds Coatings Permanently*—due to the texture of genuine puddled wrought iron, galvanizing adheres to Reading Pipe four times more thickly than to any other ferrous pipe material. Paint and other coatings last indefinitely.

\*There is only one way to make genuine puddled wrought iron—the time-tested material. Pure pig iron and silicious slag must be kneaded and worked together inside a flame-filled furnace, to secure perfect and uniform distribution of the protective slag filaments within the metal. Time tells of only genuine puddled wrought iron—accept no untried substitutes for Reading Genuine Puddled Wrought Iron Pipe.



READING 5 POINT PIPE (R)

# READING PIPE

GENUINE PUDDLED WROUGHT IRON

READING IRON COMPANY, Reading, Pennsylvania

Atlanta	-	Buffalo	-	Detroit	-	New York	-	St. Louis	-	Fort Worth
Baltimore	-	Chicago	-	Houston	-	Pittsburgh	-	Tulsa	-	Seattle
Boston	-	Cincinnati	-	Los Angeles	-	Cleveland	-	San Francisco	-	Philadelphia



W. F. EAMES,  
Design Engineer,  
Carnegie Tech, '18



P. M. McCUSKER,  
Headquarters Sales,  
W. T. N. S., '21



C. M. PURDY,  
Interdepartmental  
Contract  
Administration,  
W. T. N. S., '26



## YOUNGER COLLEGE MEN ON RECENT WESTINGHOUSE JOBS



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Construction  
Superintendent,  
Armour Institute of  
Technology, '23



W. R. HARDING,  
Motor Engineer,  
U. of N. Carolina, '17



H. J. PETERSEN,  
Control Engineer,  
U. of Washington, '26

## The Fisher Building

*Where do young men get in a large industrial organization? Have they opportunity to exercise creative talent? Is individual work recognized?*

**I**N architectural beauty and in completeness of accommodations for all classes of business and professional activities, Detroit's new Fisher Building has been pronounced ten years ahead of the times.

An important feature of its advanced development is the Westinghouse elevator system which serves the 26-

story tower and the 11-story wings. Twenty-five elevators are installed, all with automatic control which brings each car to a smooth stop exactly level with the floor every time. A master control system, in addition, enables the chief operator to advance or retard speeds from his own station and to maintain accurate service schedules.

Lighting equipment, installed under the largest contract of its

kind ever placed, is equally advanced. More than 12,000 Westinghouse Sollux units give light without glare throughout the entire structure.

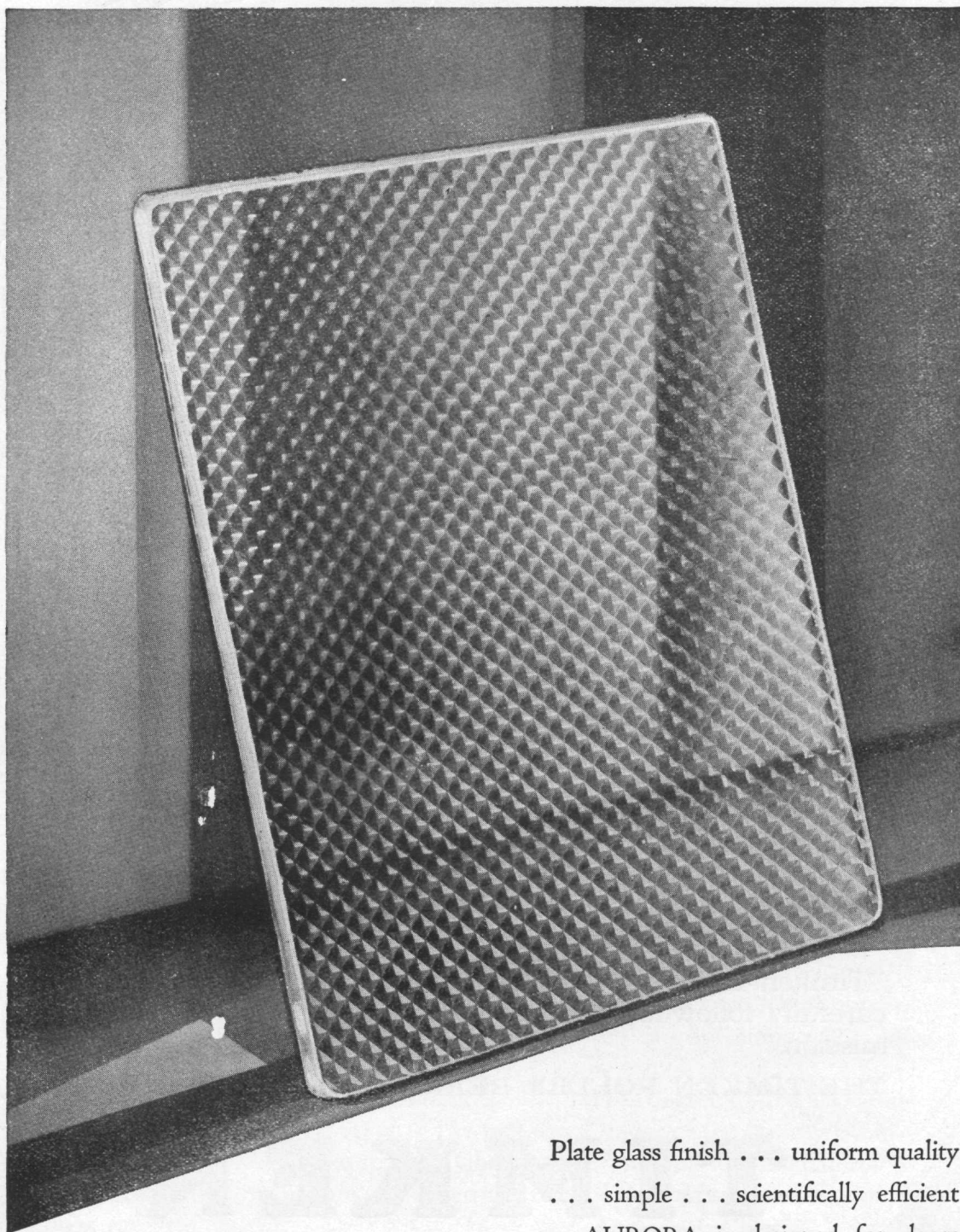
Pumps and ventilating fans are driven by Westinghouse motors.

The complete electrification of the Fisher Building is the sort of a job that must go to an organization large enough to handle it. Westinghouse offers young men a type of opportunity that appeals to those with enterprise and talent.

# Westinghouse







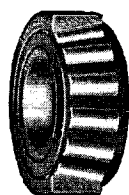
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simplicity

Plate glass finish . . . uniform quality  
. . . simple . . . scientifically efficient  
—AURORA is designed for doors  
and partitions in buildings where  
quality and good taste are emphasized  
without sacrificing the proper illumi-  
nation demanded by modern business.

*Sample upon request.*

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## *Wherever Wheels and Shafts Turn*

The swift strides made by Timken through long research and large resources have placed Timken Bearings in the forefront of the economics of a mechanical age.

Daily new uses are found, new applications, new advantages, and daily Timken sweeps to new peaks.

At every turn—in industry, transportation, mining and agriculture—Timken Bearings are at work in railroad and street car journals, motor cars, buses, trucks and machinery of all kinds, opposing friction with anti-friction, waste with saving.

Wherever power is applied through moving parts, Timken Bearings are bettering the work of the world—holding friction in check, carrying radial and thrust loads, resisting wear, cutting production costs and increasing production wherever wheels and shafts turn.

“Timken-Equipped” and its practical application should be carefully followed by every student of proper power transmission.

THE TIMKEN ROLLER BEARING CO., CANTON, OHIO

**TIMKEN**  
*Tapered*  
**ROLLER BEARINGS**





## OIL ENGINES

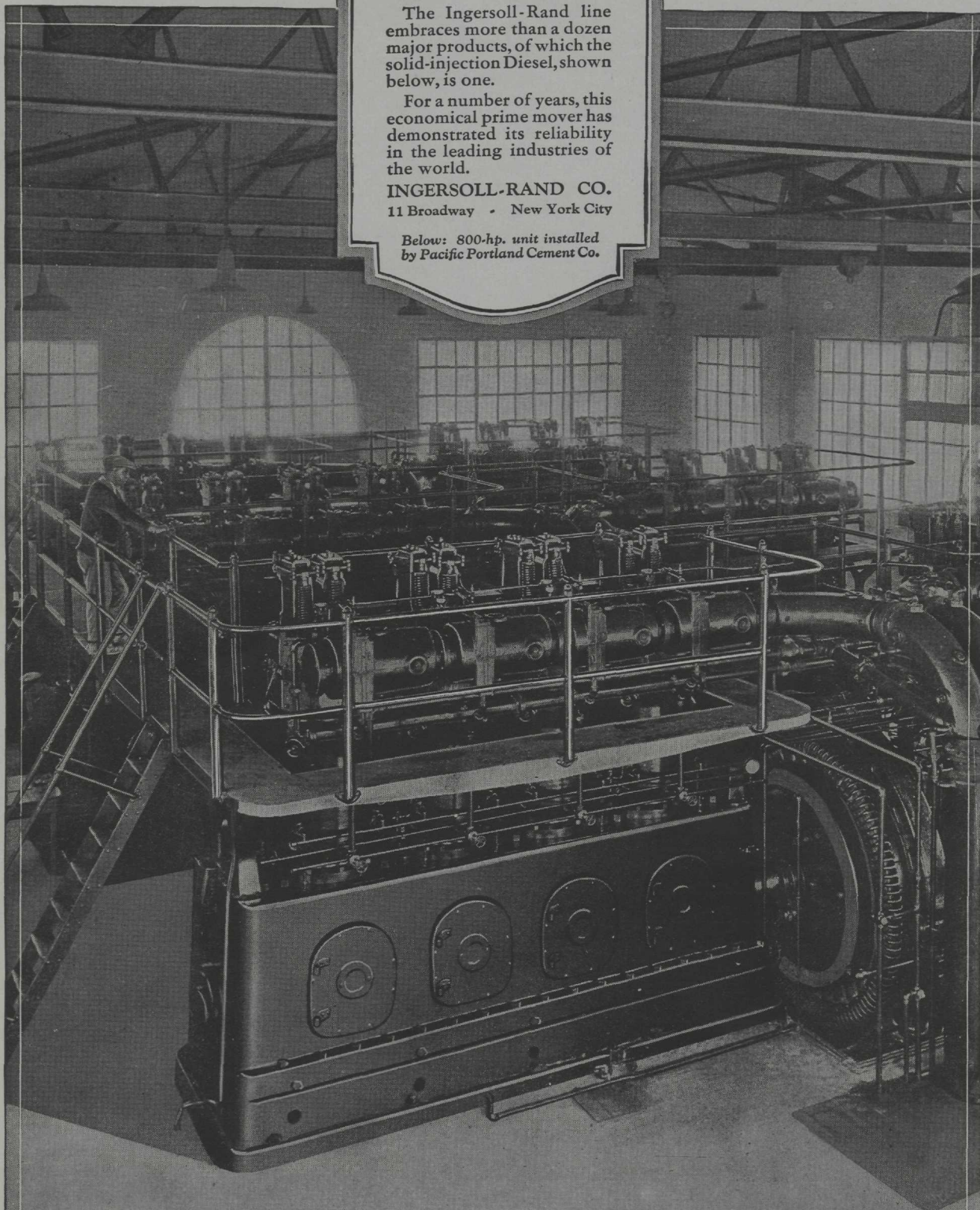
The Ingersoll-Rand line embraces more than a dozen major products, of which the solid-injection Diesel, shown below, is one.

For a number of years, this economical prime mover has demonstrated its reliability in the leading industries of the world.

**INGERSOLL-RAND CO.**

11 Broadway • New York City

*Below: 800-hp. unit installed  
by Pacific Portland Cement Co.*



# Ingersoll-Rand



# Changing Horses

AT the portals of our large cities—New York, Baltimore, Detroit, and soon Cleveland—a semaphore halts a luxurious flyer drawn by a puffing steam engine. A simple switching maneuver, and electricity takes charge. A giant electric locomotive, quickly under way, glides silently into the home stretch with its long string of Pullmans.

Like a thoroughbred it makes the run—tirelessly. Passengers alight in a clean terminal—clean because there is no smoke or soot.

Another milestone in transportation—another event in the life of the iron horse!

Civilization is progressing, with electricity in the van. How far this advance will take us, is a problem for our future leaders. It is for them to develop and utilize new applications of electricity—the force that is pointing the way over uncharted courses, not only in railroading, but in every phase of progress.



The G-E monogram is found on large electric locomotives and on MAZDA lamps, electric vacuum cleaners, and a multitude of other appliances which serve us all. It is the mark of an organization that is dedicated to the cause of electrical progress.

**GENERAL ELECTRIC**  
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